











Project Team

City of Boston

Vineet Gupta, Director of Planning, BTD Ralph DeNisco, Project Manager, BTD Para Jayasinghe, City Engineer, BPWD

Design Team

Judith Nitsch Engineering, Inc. Jerry Blumenthal, P.E. Phil Viveiros, P.E., P.T.O.E.

Carol R. Johnson Associates, Inc. Chris Jones, A.S.L.A.







Agenda

- 6:30
- Ø Peabody Square Public Art Committee
- Ø Review of Project Area/Schedule
- Ø Major Community Concerns (1 st meeting)
- 7:00
- Ø Design Refinement Two Alternatives
- Ø Traffic and Urban Design Analysis
- Ø Palette of Materials
- 7:30
- Ø Public Input/Discussion
- Ø What's Next







Design Area













Project Schedule



Preliminary Design (25%)

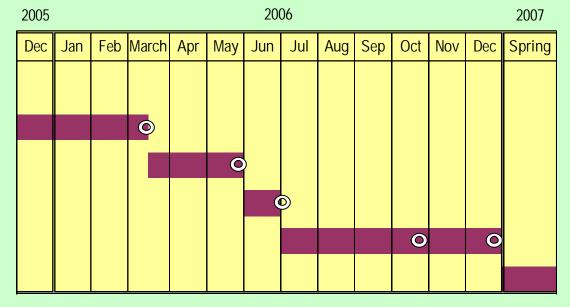
Data Collection & Analysis

Refinement of Alternatives

Preliminary Design (25%)

Final Design (100%)

Construction



O --- Public Meeting

Ongoing Coodination with Dot Ave. Task Force & Artist









Major Concerns from the 1st Public Hearing

- Keep I-93 bound traffic on Dot Avenue, eliminate Ashmont Street eastbound (cut-through) move
- Enlarge study area/one-way street operation
- Curbside truck loading
- Under the X Scheme, keep Ashmont Street eastbound connection
- Excessive vehicle speed in neighborhood
- Include bus pull-offs
- Enforce parking regulations









Steps Taken (since 1st Meeting)

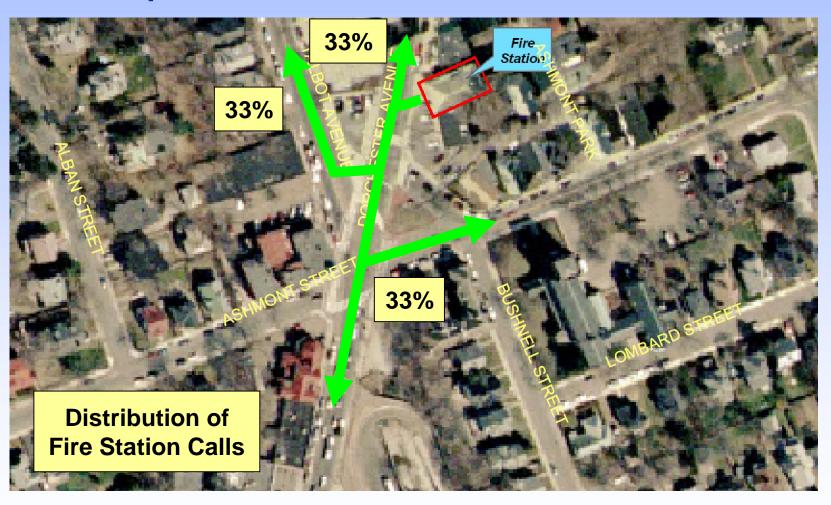
- Ø Met with Fire Station Captain to Review Station Operations
- Ø Performed Detailed Traffic Analysis (Existing and 2016)
- Ø Refined Two Schemes into Functional Designs
- Ø Developed Conceptual Streetscapes
- Comparison with Enhanced Existing Condition







Fire Station Operation



Station responds to approximately 3,000 calls per year







Fire Station Operation Issues



- Ø Location of stop lines
- Ø Space to pull out / back up fire trucks
- Ø Design of curb radii for fire truck movements
- Ø Signal preemption for fire station operation







Scheme Similarities

- ü Simplify Square layout/eliminate islands and many conflict points
- ü Reduce number and length of pedestrian crossings (90' to 55')
- ü Provide linear streetscape and edge along Dot Avenue
- ü Improve traffic operations/reduces delays (15 30 sec/vehicle)
- ü Two signalized intersections / fire station preemption
- ü Reduce vehicle speeds through the Square
- ü Provide gateway to Square and ample outdoor public spaces
- ü Long driveways across public spaces (40' to 60')



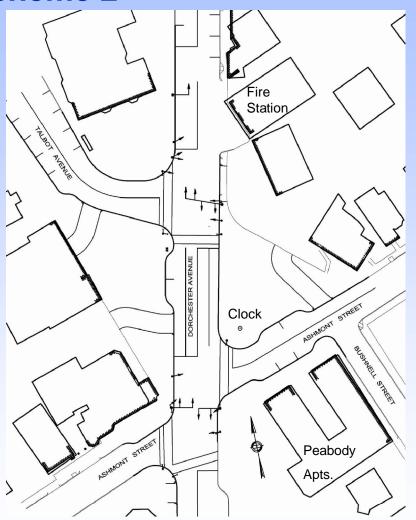
Potential reduction of on-street parking







Scheme 2



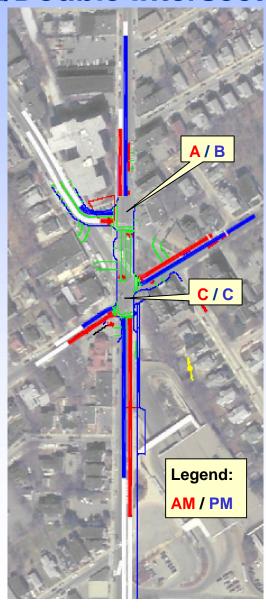
- ü Talbot Street right angle intersection
- ü Four-lane cross-section on Dot Ave
- ü Left-turn lanes on northbound and southbound Dot Ave.
- ü Store 24 driveway within intersection
- ü Two-lane approach for Talbot Ave







Scheme 2/Double Intersection – 2016 Traffic Analysis



Overall delay decreases

Ø60% in AM Peak Hour (~30 sec/veh)

Ø36% in PM Peak Hour (~15 sec/veh)

95th Percentile Queues:

ØMost Improved: Talbot Ave. (90% reduction in AM Peak)

Ø Significantly Improved: Dot Ave.NB(40 - 45% reduction)

ØLeast Improved: Ashmont St.WB









Scheme 2



- üOpportunity for large gathering spaces
- üNew green spaces on both sides of Dot Ave.
- üPossible outdoor café
- ü Screening of parking lots
- üStreet trees
- üFurnishings







Scheme 2/Double Intersection



üPros

- Visually effective Dot Ave. streetscape
- Balance of 3 nodes/ample public space
- Screens parking lots
- Significant reduction of Talbot Ave. queues
- May discourage Talbot to Ashmont move

x Cons

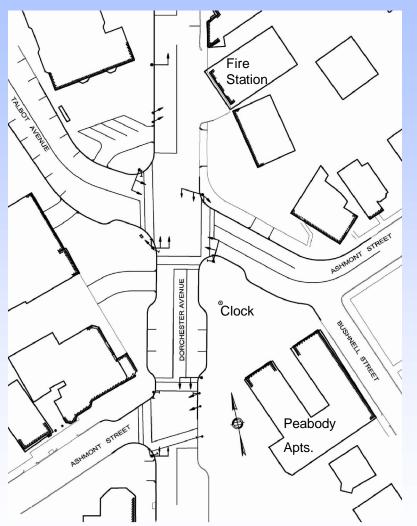
- Heavy demand between Ashmont St. and Talbot Ave.
- Ashmont St. WB queues not improved







X Scheme



- ü Talbot/Ashmont aligned
- ü Three-lane cross-section for Dot Ave. with northbound left-turn lane
- ü Three-lane approach for Ashmont St. westbound with left/right turn-lanes
- ü Left-turn lane northbound Dot Ave.
- ü Possible off-street parking area

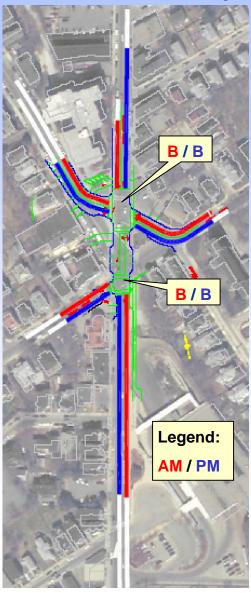






DEPARTMENT

X Scheme – 2016 Traffic Analysis



Overall delay decreases

Ø77% in AM Peak Hour (~35 sec/veh)

Ø57% in PM Peak Hour (~20 sec/veh)

95th Percentile Queues:

- ØBalanced improvement across all approaches
- Ø Significantly Improved: Talbot Ave. (50% reduction) Dot Ave. NB (35 - 40% reduction)
- WB

 WB

 WB

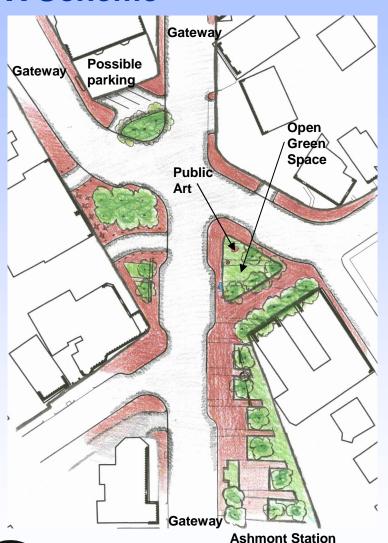
 Boston
 TRANSPORTATION







X Scheme



üContinuation of Ashmont Station plaza

üEnhanced green space around clock

üPaving pattern to compliment Ashmont Station plaza

üOpportunity for gathering spaces

üNew trees for shade and scale

üPossible outdoor café

üFurnishings











ü Pros

- Reduced conflict points/improved safety
- Square is connected to Ashmont Station plaza
- Creates ample public space on both sides of Dot Ave.
- Ashmont/Talbot maneuver improved
- May discourage Ashmont Street eastbound move (Traffic on Dot Ave)

x Cons

- Ashmont Street connection interrupted
- Does not screen parking lots
- Square absorbed by Ashmont Station plaza







Streetscape Components

- Paving
 - Sidewalks/plazas and crosswalks
- Lighting
 - City standard street lighting
 - Special/accent lighting
- Furniture
 - Benches, trash receptacles, bollards, tree grates, pennants, bike racks
- Landscaping
 - Trees/shrubs
- Art
 - Integrate into streetscape
 - Sculpture, exhibit
- Maintenance

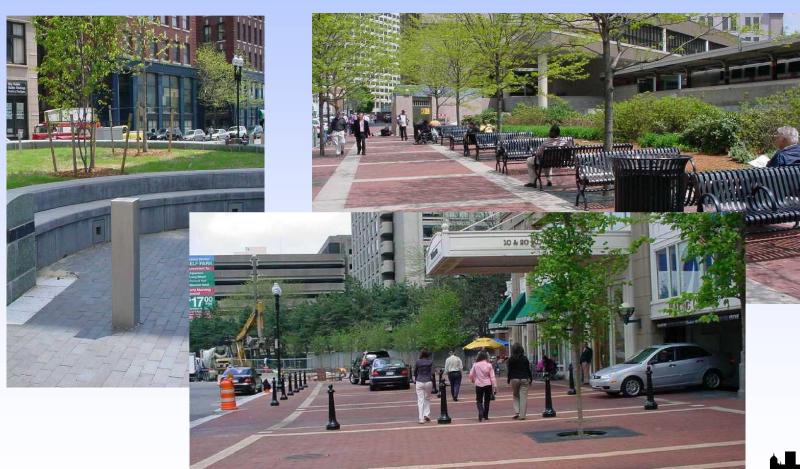






Streetscape Materials Palette

Sidewalk, plaza, and crosswalk paving



















DEPARTMENT

Streetscape Materials Palette

• Benches, trash receptacles, bollards, tree grates, pennants







Streetscape Materials Palette

- City standard street lighting
- Special/Accent Lighting



Bishop's Crook



Acorn



Pendant





Cobra Head





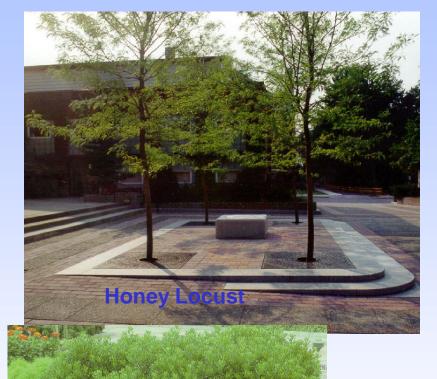
Streetscape Materials Palette

Trees/shrubs/flowers





Daylilies









Public Input/Discussion















Scheme 2

üPros

- Visually effective Dot Ave. streetscape
- Balance of 3 nodes/ample public space
- Screens parking lots
- Significant reduction of Talbot Ave.
 queues
- May discourage Talbot to Ashmont move

x Cons

- Heavy demand between Ashmont St. and Talbot Ave.
- Ashmont St. WB queues not improved

X Scheme

ü Pros

- Reduced conflict points/improved safety
- Square is connected to Ashmont Station plaza
- Creates ample public space on both sides of Dot Ave.
- Ashmont/Talbot maneuver improved
- May discourage Ashmont Street eastbound move (Traffic on Dot Ave)

x Cons

- Ashmont Street connection interrupted
- Does not screen parking lots
- Square absorbed by Ashmont Station plaza









What's Next

- Ø Develop preferred option to Preliminary Design level
- Ø Coordinate with ongoing initiatives
- Ø Specific discussions with relevant agencies, abutters
- Ø Third public meeting in June
- Ø Preliminary design approval at the next meeting

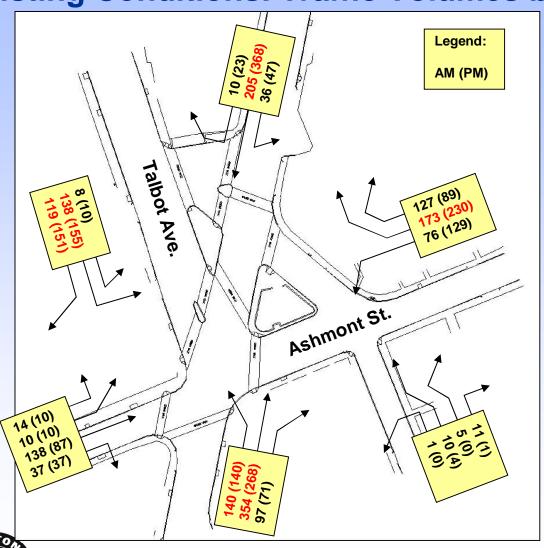








Existing Conditions: Traffic Volumes by Movement



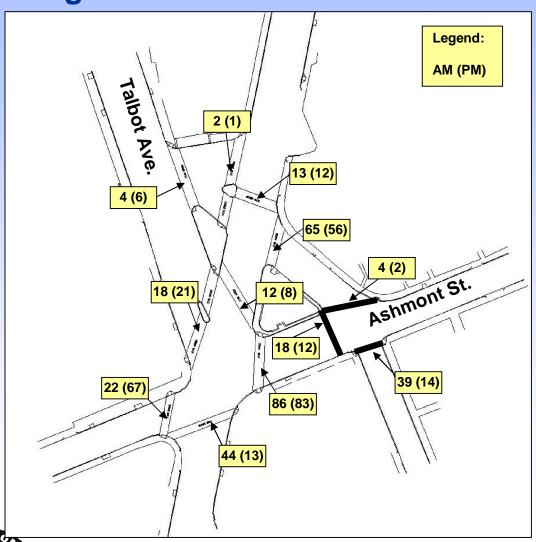
- Ø Dot Ave is heaviest corridor, followed by Ashmont Street
- Ø Heavy movement from AshmontStreet to Talbot Avenue







Existing Conditions: Pedestrian Volumes by Crossing



- Ø Pedestrian volumes during peak hours
- Ø Dot Ave is heaviest pedestrian corridor
- Ø Heavy morning crossing from Ashmont westbound







Core Project Needs

- Ø Revitalize Square to promote commercial and community activity
- Ø Create a safe, attractive, and accessible environment for all users
- Simplify roadway configuration and reduce points of conflict
- Ø Enhance sidewalks and provide pedestrian-scale amenities
- Ø Provide for placemaking and area gateway



